

WHAT IS CLAIMED

1. A laminate comprising
 - 1) a substrate
 - 5 2) a stain resistant and adherent layer on said substrate, comprising the cross-linked reaction product of at least;
 - a) at least one amino resin cross-linking agent and either
 - b1) reactive polyester resin and
 - 10 b2) a hydroxyl terminated polymer including repeat units from an oxetane having a pendant $-\text{CH}_2\text{-O-(CH}_2)_n\text{-Rf}$ group or
 - c) a reactive polyester resin including therein at least one repeat unit derived from copolymerizing into said polyester a hydroxyl terminated polymer including repeat units from an oxetane having a pendant $-\text{CH}_2\text{-O-(CH}_2)_n\text{-Rf}$ group, or
 - 15 combinations of a), b), or c),
wherein said Rf group, independently, being a linear or branched alkyl group of 1 to 20 carbon atoms and a minimum of 25 percent of the hydrogen atoms of said alkyl group being replaced by F, or said Rf group, independently, being a oxaperflourinated or perfluorinated polyether having from 4 to 60 carbon atoms, and n being from 1 to 3 and optionally, up to 20 wt%, based on the weight of said hydroxyl terminated polymer, of a cyclic tetramer from the polymerization of an oxetane monomer having a pendant $-\text{CH}_2\text{-O-(CH}_2)_n\text{-Rf}$ group wherein Rf is described above.
2. A laminate according to claim 1 wherein a surface of said substrate has been printed at least one time.

3. A laminate according to claim 1, wherein a surface of said substrate has been embossed.

4. A laminate according to claim 1, wherein a surface of said substrate has been both printed and embossed.

5. A laminate according to claim 1, wherein the surface of said substrate includes a layer of plasticized vinyl chloride polymer.

10 6. A laminate according to claim 1, wherein said substrate comprises a cellulosic product, fibers, synthetic polymers, metal or ceramic.

15 7. A laminate according to claim 1, wherein said Rf group is independently a linear or branched perfluorinated alkyl group of 1 to 20 carbon atoms.

8. A laminate according to claim 7, wherein said hydroxyl terminated polymer includes repeat units from oxetanes and repeat units from tetrahydrofuran.

20 9. A laminate according to claim 7, wherein said second layer has the characteristic of being easily cleaned of undesired markings without using liquids.

25 10. The method which comprises;

- 1) applying to a substrate a layer of a catalyzed mixture of at least
 - a) one amino resin cross-linking agent and either
 - b1) a reactive polyester resin and
 - b2) a hydroxyl terminated polymer including repeat units from an oxetane having a pendant $-\text{CH}_2\text{O}-(\text{CH}_2)_n-$ Rf group
 - or

- c) a reactive polyester resin including at least one repeat unit derived from copolymerizing into said polyester a hydroxyl terminated polymer including repeat units from an oxetane having a pendant $-\text{CH}_2\text{-O-(CH}_2)_n\text{-Rf}$ group, or combinations of a),
5 b), and c)
- 2) subsequently heating said mixture to at least about 150°F for a period of time sufficient to cure and cross-link said layer, thereby providing a crosslinked layer,
wherein said Rf group, independently is a linear or branched alkyl group of 1 to 20 carbon atoms with a minimum of 25 percent of the hydrogens of said alkyl groups being replaced by F or said Rf group independently being an oxaperfluorinated or perfluorinated polyether having from 4 to 60 carbon atoms, and n being from 1 to 3.
- 15 11. A method according to claim 10, wherein said Rf of said repeat units is individually on said repeat units a perfluorinated alkyl having from 1 to 20 carbon atoms.
- 20 12. A method according to claim 10, where prior to applying said layer to said substrate, said substrate is printed at least one time.
13. A method according to claim 10, wherein said substrate comprises a cellulosic product, fibers, synthetic polymer, metal or ceramic.
- 25 14. A method according to claim 10, where prior to applying said layer to said substrate, said substrate is printed and embossed.
15. A method according to claim 10, wherein said substrate includes a layer of plasticized vinyl chloride polymer.
- 30 16. A method according to claim 15, wherein said vinyl chloride polymer is coated onto a fabric or backing.

17. A method according to claim 15, of forming a wallcovering.
18. A method according to claim 11 of forming a dry erase surface.
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19. A composition, comprising;
- a) at least one amino resin cross-linking agent and either
- b1) reactive polyester resin and
- b2) a hydroxyl terminated polymer including repeat units from
- 10 an oxetane having a pendant $-\text{CH}_2\text{-O-(CH}_2\text{)}_n\text{-Rf}$ group,
- or
- c) a reactive polyester resin including therein at least one re-
- peate unit derived from copolymerizing into said polyester a hy-
- droxyl terminated polymer including repeat units from an
- 15 oxetane having a pendant $-\text{CH}_2\text{-O-(CH}_2\text{)}_n\text{-Rf}$ group or combina-
- tions of a), b), and c),
- wherein said pendant $-\text{CH}_2\text{-O-(CH}_2\text{)}_n\text{- Rf}$ group, independ-
- 20 ently, on different repeat units is a linear or branched alkyl
- group of 1 to 20 carbon atoms, a minimum of 25 percent of
- the hydrogen atoms of said alkyl group being replaced by F or
- said Rf group independently, being an oxaperfluorinated or per-
- fluorinated polyether having from 4 to 60 carbon atoms, and n
- is from 1 to 3.
- 25 20. A composition according to claim 19, wherein Rf is said linear
- or branched alkyl group.
21. A composition according to claim 19, wherein said Rf is a linear
- or branched alkyl group of 3 to 10 carbon atoms.
- 30 22. A composition according to claim 19, wherein at least said
- amino resin and said polyester including repeat units from said

hydroxyl terminated polymer are reacted together to form a reaction product.

23. A composition according to claim 21, wherein at least said polyester, said hydroxyl terminated polymer, and said amino resin are reacted together to form a reaction product.

24. In an article including a substrate having a protective coating thereon, the improvement wherein the protective coating comprises

a) at least one amino resin cross-linking agent and either

b1) reactive polyester resin and

b2) a hydroxyl terminated polymer including repeat units from an oxetane having a pendant $-\text{CH}_2\text{-O-(CH}_2\text{)}_n\text{-Rf}$ group

or

c) a reactive polyester resin including therein at least one repeat unit derived from copolymerizing into said polymester a hydroxyl terminated polymer including repeat units from an oxetane having a pendant $-\text{CH}_2\text{-O-(CH}_2\text{)}_n\text{-Rf}$ group, or combinations of a), b), and c),

wherein said pendant $-\text{CH}_2\text{-O-(CH}_2\text{)}_n\text{RF}$ group independently on different repeat units is a linear or branched alkyl group of 1 to 20 carbon atoms and a minimum of 25 percent of the hydrogen atoms of said alkyl group being replaced by F or said Rf, independently, being an oxaperfluorinated or perfluorinated polyether having from 4 to 60 carbon atoms, and in being from 1 to 3.

25. In an article according to claim 24 wherein said a) and c) are reacted to form a crosslinked composition.

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26. In an article according to claim 25, wherein the substrate is a
cellulosic sheet.

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